

What is claimed is:

1. A system for compensating retardation caused by birefringence of incident light to liquid crystal devices, each of the liquid crystal devices is provided in the optical axis of
5 each of plural primary color lights with different wavelengths, the system comprising:

retardation compensators, formed from inorganic materials, provided in at least one of the incidence surface side and the emanation surface side of the liquid crystal devices, and the
10 retardation compensator for the primary color light with the shortest wavelength having a different structure from the retardation compensator for other primary color.

2. The system according to claim 1, wherein the retardation
15 compensator is a retardation compensation film composed of at least of two kinds of thin film layers with different refractive indices, and the optical thickness of each thin film layer is $1/100$ to $1/5$ of the wavelength of corresponding primary color light.

20 3. The system according to claim 2, wherein the retardation compensators for all primary color lights have a common combination of the inorganic materials for at least two kinds of thin film layers.

25 4. The system according to claim 3, wherein the number of the layered thin films of the retardation compensator for the primary color light with the shortest wavelength is smaller than

that of the retardation compensator for other primary color light.

5 5. The system according to claim 1, wherein the retardation compensator is a plurality of birefringent members arranged to appear one or two dimensional refractive index distribution in the plane perpendicular to the optical axis of the primary color light,

 wherein the length of the birefringent member for the shortest wavelength primary color light in the optical axis is
10 smaller than that for other primary color light.

 6. A liquid crystal projector having liquid crystal devices for plural primary color lights, the primary color lights passing through the corresponding liquid crystal device being focused on
15 a screen to display an image, the liquid crystal projector comprising:

 retardation compensators, formed from inorganic materials, provided in at least one of the incidence surface side and the emanation surface side of the liquid crystal devices, the
20 retardation compensator for the primary color light with the shortest wavelength having a different structure from the retardation compensator for other primary color.

 7. The liquid crystal projector according to claim 6,
25 wherein the retardation compensator is a retardation compensation film composed of at least of two kinds of thin film layers with different refractive indices, and the optical thickness of each

thin film layer is $1/100$ to $1/5$ of the wavelength of corresponding primary color light.

8. The liquid crystal projector according to claim 7,
5 wherein the retardation compensators for all primary color lights have a common combination of the inorganic materials for at least two kinds of thin film layers.

9. The liquid crystal projector according to claim 8,
10 wherein the number of the layered thin films of the retardation compensator for the primary color light with the shortest wavelength is smaller than that of the retardation compensator for other primary color light.

15 10. The liquid crystal projector according to claim 6, wherein the retardation compensator is a plurality of birefringent members arranged to appear one or two dimensional refractive index distribution in the plane perpendicular to the optical axis of the primary color light,

20 wherein the length of the birefringence member for the shortest wavelength primary color light in the optical axis is smaller than that for other primary color light.